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ABSTRACT

This document features review questions, crossword puzzles, and word search puzzles on human anatomy. Topics include: (1) Anatomical Terminology; (2) The Skeletal System and Joints; (3) The Muscular System; (4) The Nervous System; (5) The Eye and Ear; (6) The Circulatory System and Blood; (7) The Respiratory System; (8) The Urinary System; (9) The Reproductive System; and (10) The Digestive System. Puzzle solutions are also included. (YDS)

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THE ANATOMY PUZZLE BOOK

Willis H. Jacob
Robert Carter III

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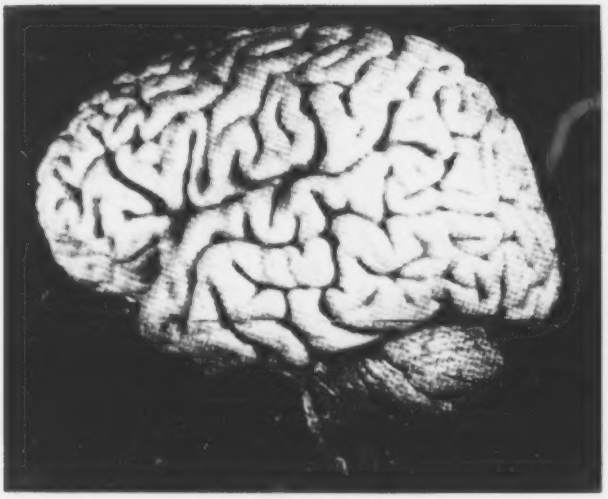

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THE ANATOMY PUZZLE BOOK

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Preface

The thought of studying human anatomy generates a feeling of extreme anxiety and the sense of impending doom in many students. Those students do not appreciate the excitement and beauty in anatomy. It is our hope that this collection of puzzles will help to make the study of anatomy more of a fun endeavor. We dedicate this collection to all the students who have spent many hours studying anatomy and who have come to savor that pursuit.

Willis H. Jacob
Robert Carter III

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Review Questions

and

Puzzles

Anatomical Terminology

Review Questions

1. Describe the anatomical position. Why is the anatomical position significant in the study of anatomy?

2. Name and describe the planes of the body.

3. Name and describe the regions of the body.

4. Discuss the regions and quadrants of the abdomen.

5. Define each of the following terms: cell, tissue, organ, system, organism.

6. Name the parts of the cell and state the function of each part.

7. Name the four classes or primary types of tissue in the body. What is the function of each class of tissue? Name the types of tissue in each class of tissue and give an example of each type.

8. Describe the differences between a serous membrane and a mucous membrane. What are some examples of a serous membrane? What are some examples of a mucous membrane?

Anatomical Terminology

Crossword Puzzle Clues

Across

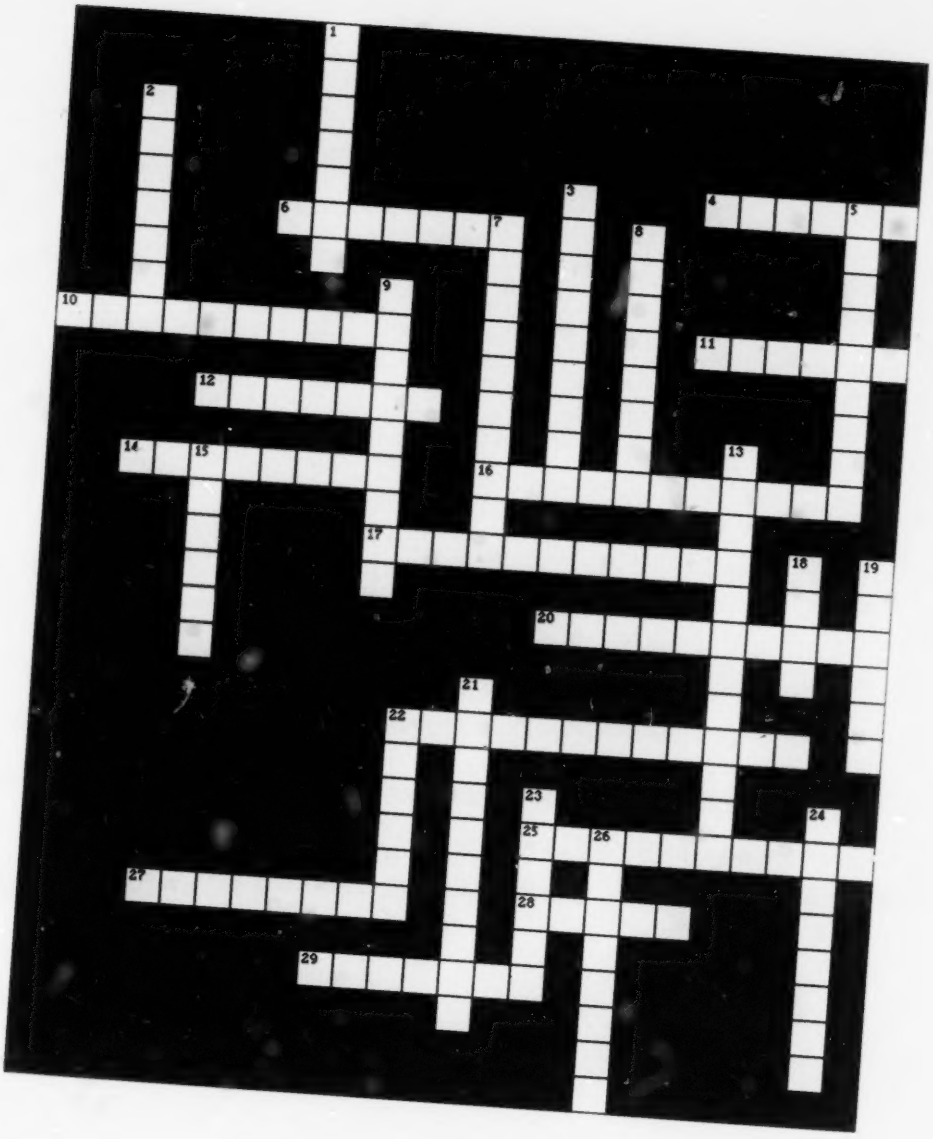
4. Wrist
6. Heart muscle
10. Study of function
11. Highly specialized for contractility
12. Intracellular fluid
14. Membrane containing only connective tissue and lining joint cavities
16. On the same side of the body
17. Toward or on the surface of the body
20. Specialized structures within cells
22. Main sites for generation of ATP
25. A covering and lining, or glandular tissue
27. Voluntary muscle
28. A group of tissues performing a common function
29. Controls the chemical activities of the cell

Down

1. Skull region
2. Study of structure and relationships among structures
3. Sites of protein synthesis
5. Region containing the navel
7. A tissue which binds, supports, connects, and strengthens
8. Nearer the point of reference or attachment
9. Composed of cytoplasm, organelles and inclusions of the cell
13. Lipid bilayer
15. Nerve cell
18. Basic structural and functional unit of organisms
19. A group of similar cells performing a common function
21. More than one layer
22. Nearer to the midline
23. Membrane that lines closed body cavities
24. Plane that divides the body into right and left parts
26. Refers to groin

Anatomical Terminology

Crossword Puzzle



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Anatomical Terminology

Word Search Puzzle

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C	C	M	E	S	Y	N	O	V	I	A	L	A	A	F	A	C
P	R	E	O	D	O	R	G	A	N	Z	R	R	A	M	S	O
H	S	A	L	T	I	F	S	B	E	P	D	I	I	U	T	N
Y	E	M	N	L	A	A	T	R	U	I	R	X	W	M	R	N
S	M	S	J	I	M	N	L	S	A	D	O	S	E	B	A	E
I	O	U	Z	A	A	E	A	C	N	R	C	L	U	I	T	C
O	S	O	T	J	C	L	M	O	P	L	V	I	S	L	I	T
L	O	R	W	Y	E	C	H	B	L	S	O	X	S	I	F	I
O	B	E	G	L	Y	C	S	L	R	A	U	T	I	C	I	V
G	I	S	C	T	O	K	P	T	A	A	N	E	T	A	E	E
Y	R	S	O	T	E	R	T	I	N	T	N	I	L	L	D	M
F	U	S	I	L	L	N	L	L	E	C	T	E	U	C	J	N
M	O	M	E	M	R	N	O	R	U	E	N	I	A	G	U	B
L	M	T	O	R	G	A	N	E	L	L	E	O	G	P	N	N
P	A	E	P	I	T	H	E	L	I	A	L	A	L	A	K	I
L	O	G	Y	L	A	I	C	I	F	R	E	P	U	S	S	T

ANATOMY
CARDIAC
CARPUS
CELL
CELLMEMBRANE
CONNECTIVE
CRANIAL
CYTOPLASM
CYTOSOL
EPITHELIAL
INGUINAL
MEDIAL
MITOCHONDRIA
MUSCLE
NEURON
NUCLEUS
ORGAN
ORGANELLES
PHYSIOLOGY
PROXIMAL
RIBOSOMES
SAGITTAL
SEROUS
SKELETAL
STRATIFIED
SUPERFICIAL
SYNOVIAL
TISSUE
UMBILICAL

The Skeletal System and Joints

Review Questions

1. Name the types of bone. What are the characteristics of each type of bone? Name three examples of each type of bone.

2. Name the parts of a typical long bone. What is the function of each part of a typical long bone.

3. Name the three types of bone cells. What is the function of each type of bone cell?

4. Name the two divisions of the skeleton. Name the bones in each division of the skeleton.

5. Name the three classes of joints based upon structure.

6. Describe the structure of a typical synovial joint to include the function of each part.

7. Name the three classes of joints according to function. Name the types of joints in each class. Identify the kinds of motion permitted by each type of joint.

The Skeletal System and Joints

Crossword Puzzle Clues

Across

1. Suture that joins the frontal and parietal bones
5. Study of bone structure
10. Bone forming the posterior part and base of the cranial cavity
11. Immovable joint
15. Shoulder girdle
18. Cheekbone
20. Cube shaped bones with nearly equal lengths and widths
21. Type of joint with the primary motion of rotation, e.g. between atlas and axis
25. Seventh cervical vertebra (2 words)
27. Suture that joins the parietal and occipital bones
29. Largest component of the hipbone
30. Composed of the cranium and face
33. Bones with a shaft and with a greater length than width
34. Spaces between the ribs
35. Longest and largest bone of the upper limb
36. Cavity containing marrow
37. Joint such as between the carpal bones and the tarsal bones
41. Freely movable joint
43. Boat-shaped tarsal bone
47. Membrane covering the surface of a bone
50. Bones such as the breastbone and cranial bones
51. Last five pairs of ribs
52. Lower jawbone
53. Immovable joint between skull bones
54. Skeletal division containing the bones of the head and trunk

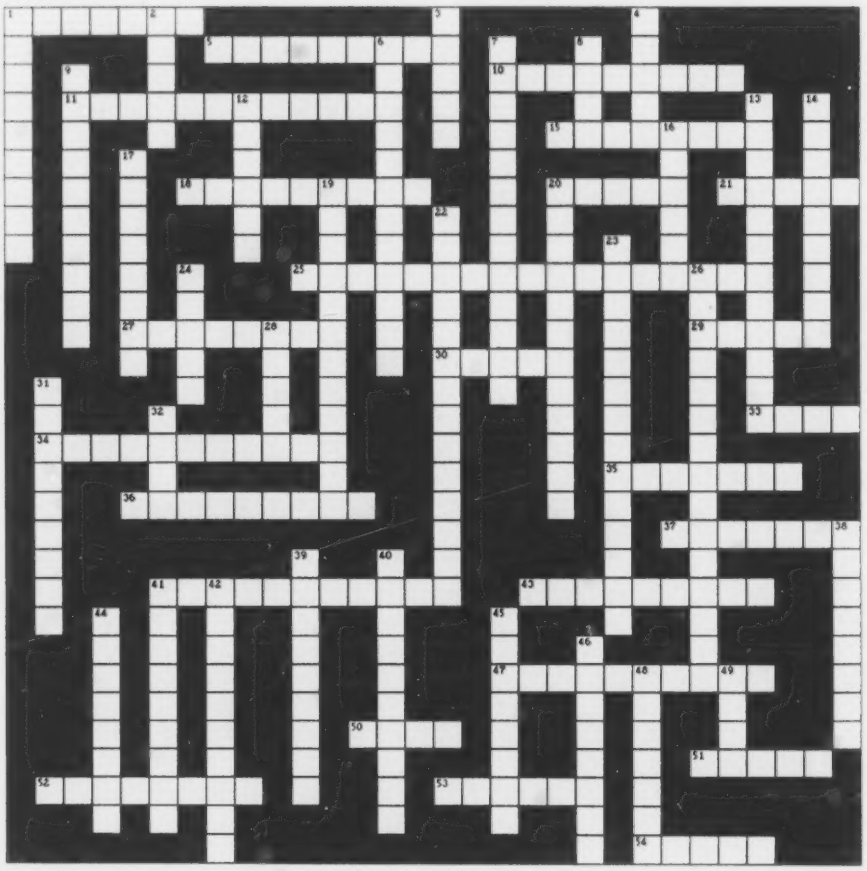
Down

1. Heel bone
2. First bone in the spinal column
3. U-shaped bone that does not articulate with any other bone
4. A point of connection between two or more bones
6. Process by which bone forms
7. Large hole in occipital bone (2 words)
8. Number of metatarsal bones
9. Cell that destroys bone matrix
12. Type of joint which permits flexion and extension

13. Type of joint between the radius and the carpal bones
14. Membrane lining the inner cavity of a bone
16. Structural unit of dense bone
17. Collarbone
19. Division of skeleton containing the bones of the limbs
20. Point where the second pair of ribs attach to the sternum
22. Anterior joint between the two hipbones
23. Slightly movable joint
24. Largest, heaviest, and strongest bone in the body
26. Site of bone elongation (2 words)
28. Eye socket
31. Proximal and distal ends of a bone
32. First seven pairs of ribs
38. Area between supraorbital ridges
39. Finger bones
40. Cell that forms bone
41. Shaft of a bone
42. Socket of the hipbone for the head of the femur
44. Eleventh and twelfth pairs of ribs
45. Largest carpal bone
46. Connective tissue that holds bones together and strengthens joints
48. Shoulder blade
49. Medial bone of the forearm

The Skeletal System and Joints

Crossword Puzzle



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The Skeletal System and Joints

Word Search Puzzle

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I	X	O	S	C	X	E	I	A	W	H	O	D	I	P	Q	C	U	D	A	A	T
Q	B	U	J	O	M	O	N	E	A	L	I	A	G	I	X	E	R	M	R	M	E
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L	V	E	O	A	I	A	A	C	P	T	O	F	R	F	J	A	L	R	O	T	N
I	C	R	S	B	T	N	R	H	H	L	R	T	X	P	T	Y	B	X	W	E	U
T	A	E	L	I	G	A	Y	R	Y	W	G	N	C	U	S	U	R	Q	F	U	M
L	S	E	P	E	N	S	O	Z	C	P	D	L	D	F	P	A	E	W	Q	K	J
A	P	A	S	O	I	S	E	O	Y	L	X	F	M	C	Q	C	I	D	Y	P	O
T	C	B	N	S	I	Q	P	P	S	G	A	X	H	A	M	Z	B	I	K	N	Q
L	D	T	D	S	P	D	F	E	I	T	O	V	E	L	R	S	S	O	N	D	S
A	Z	G	F	Q	P	Z	F	Z	R	P	E	M	I	L	A	B	K	Y	J	E	L
S	F	H	E	X	A	T	O	H	T	I	H	O	A	C	A	I	E	H	O	S	F
X	S	E	M	V	P	J	O	M	D	S	O	Y	C	T	L	T	V	T	X	L	G
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A	X	I	A	L	V	U	F	L	Q	Z	B	F	B	E	S	E	I	O	R	Y	V
J	C	A	A	M	H	R	Y	R	A	B	M	U	L	O	U	R	G	R	E	A	S
X	I	D	M	Z	A	E	E	D	I	O	H	P	I	X	E	M	C	F	T	P	P
H	T	Z	Z	L	U	M	N	V	M	U	I	H	C	S	I	T	O	P	B	A	Y
Q	Y	P	A	B	A	O	L	T	C	S	U	R	E	M	U	H	S	Q	Q	H	U
D	J	K	Y	U	G	V	V	F	U	Q	E	L	Y	D	N	O	C	O	L	U	J

ATLAS
AXIAL
CAPITATE
CLAVICLE
CONDYLE
DIAPHYSIS
DIARTHROSIS
EPIPHYSIS
HAMATE
HUMERUS
HYOID
ISCHIUM
LUMBAR
MANDIBLE
MARROW
OLECRANON
OSTEOBLAST
OSTEOCYTE
PARIETAL
PERIOSTEUM
PHALANGES
SESAMOID
STERNUM
SYNOVIAL
TEMPORAL
VERTEBRA
VOMER
XIPHOID
ZYGOMATIC

The Muscular System

Review Questions

1. Describe the structure of a skeletal muscle fiber. Name the protein filaments found in a skeletal muscle fiber.

2. Name the layers of connective tissue that are located in a skeletal muscle. What role does each connective tissue layer play in the structure of the skeletal muscle.

3. Describe the structure of a neuromuscular junction. What is the function of the neuromuscular junction?

4. Define each of the following terms: origin; insertion; belly; agonist; antagonist; fixator; prime mover; synergist.

5. Name seven characteristics that are used as a basis for naming skeletal muscles.

6. Name the principal skeletal muscles of the body. Name the attachments (origin and insertion) of each muscle. State the action of each muscle.

The Muscular System

Crossword Puzzle Clues

Across

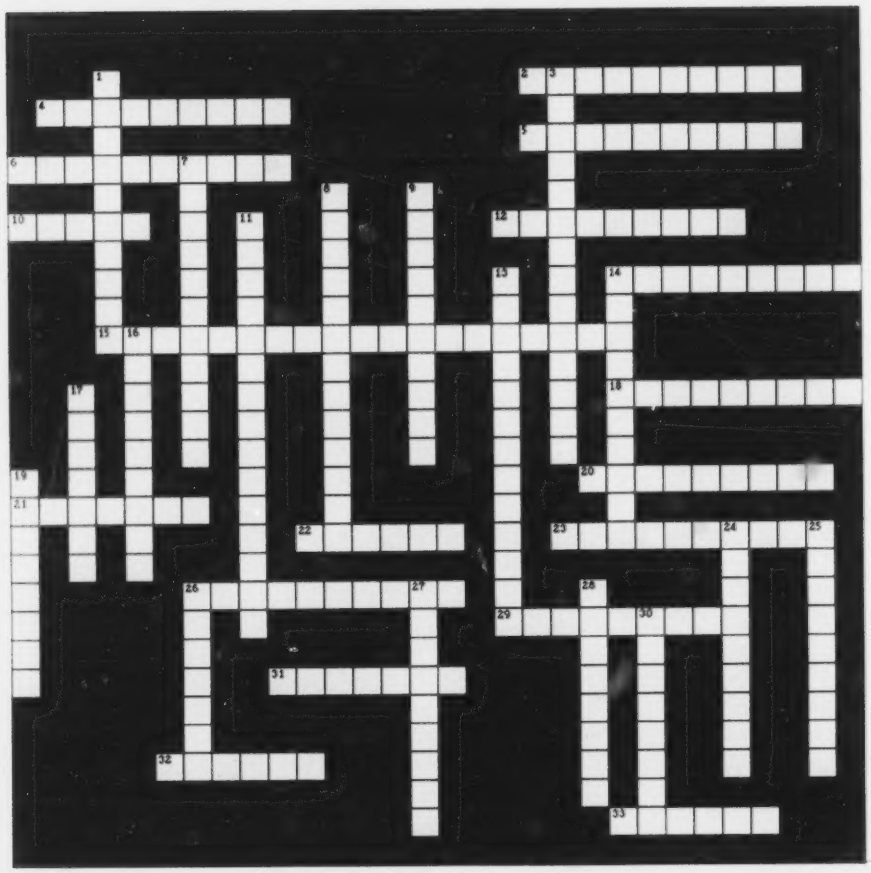
2. Membrane of a muscle cell
4. Tailor's muscle
5. Layer of dense connective tissue that surrounds a bundle of muscle fibers
6. Major cheek muscle
10. Contractile protein of thick myofilament of skeletal muscle
12. Strongest tendon of the body.
14. Layer of dense connective tissue that surrounds a whole muscle
15. Divides the cervical region into anterior and posterior triangles
18. A motor neuron and all the muscle fibers that it innervates (2 words)
20. Forms floor of the thoracic cavity.
21. Prime mover, i.e., produces a desired action.
22. Connective tissue cord that attaches muscle to bone
23. Group of three muscles posterior thigh muscles which flexes the leg and extends the thigh
26. Contractile elements of skeletal muscle
29. The basic functional, or contractile, unit of a muscle fiber
31. Stabilizes a structure
32. Contractile protein of thick myofilament of skeletal muscle
33. Attachment of a muscle to the more stationary bone

Down

1. Forearm flexor that inserts on the coronoid process of the ulna.
3. Carries impulse from the motor neuron terminal to muscle fiber
7. Broad band of connective tissue that attaches muscle to bone.
8. Region of muscle cell membrane adjacent to motor neuron ending (3 words)
9. Produces action that opposes the prime mover.
11. Flexes, adducts, and medially rotates arm
13. Calf muscle
14. Layer of dense connective tissue that surrounds individual muscle fiber
16. Trapezoid-shaped muscle which extends the head
17. Muscle which abducts, flexes and extends the arm.
19. A bundle of muscle fibers
24. Attachment of a muscle to the more movable bone
25. Assists the prime move function more efficiently
26. The study of muscles
27. Psoas muscle and the iliacus muscle
28. Adducts the thigh and flexes the leg
30. A muscle cell

The Muscular System

Crossword Puzzle



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The Muscular System

Word Search Puzzle

D	D	V	P	Q	S	Q	S	C	S	U	I	M	E	N	C	O	R	T	S	A	G
A	I	I	D	U	E	A	A	P	O	N	E	U	R	O	S	I	S	B	J	T	L
C	F	A	O	A	Y	N	C	V	D	P	X	R	S	U	I	Z	E	P	A	R	T
E	A	S	P	T	R	F	E	R	X	P	Y	V	F	S	I	L	I	C	A	R	G
T	S	R	F	H	S	T	B	K	O	L	T	I	Q	R	G	R	K	K	F	M	D
Y	C	L	E	A	R	A	G	H	I	L	Q	S	O	C	X	O	B	U	R	Y	E
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C	C	N	Y	T	N	V	G	O	Z	K	A	M	E	G	E	H	A	O	O	S	T
H	L	T	G	I	M	U	F	M	D	M	M	M	M	R	R	K	Y	Q	D	I	O
O	E	S	O	N	R	M	O	S	S	I	B	U	Y	A	E	E	M	Y	N	N	I
L	Z	I	L	Q	W	F	A	I	A	B	E	R	I	O	U	M	N	S	E	Z	D
I	D	N	O	L	E	R	L	N	U	H	S	L	A	S	F	Y	O	Y	T	T	X
N	O	O	Y	L	T	A	T	C	A	M	C	E	C	C	Y	I	T	R	S	D	U
E	H	G	M	O	R	A	C	M	U	A	P	M	I	O	H	M	B	S	C	Y	G
E	S	A	R	O	G	I	S	I	L	I	O	K	A	N	N	I	O	R	D	A	N
G	W	I	T	O	N	T	S	C	M	T	O	N	A	Z	S	R	A	D	I	M	S
B	U	C	N	A	R	Y	A	Y	O	H	T	F	I	C	I	E	E	L	N	L	A
S	E	I	T	I	M	N	S	R	W	M	N	I	G	I	R	O	R	T	I	E	S
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E	S	E	L	M	I	C	Z	M	K	B	S	A	O	S	P	O	I	L	I	O	K
I	P	U	G	T	X	R	R	E	T	A	L	P	D	N	E	R	O	T	O	M	N

ACETYLCHOLINE
ACTIN
AGONIST
ANTAGONIST
APONEUROSIS
BRACHIALIS
BUCCINATOR
CALCANEAL
DELTOID
DIAPHRAGM
ENDOMYSIUM
EPIMYSIUM
FASCICLE
FIXATOR
GASTROCNEMIUS
GRACILIS
HAMSTRINGS
INSERTION
ILIOPSOAS
MOTORENDPLATE
MOTORUNIT
MYOFIBER
MYOFIBRILS
MYOLOGY
MYOSIN
ORIGIN
PERIMYSIUM
SACROLEMMA
SACROMERE
SARTORIUS
STERNOCLEIDO-MASTOID
SYNERGIST
TENDON
TRAPEZIUS

The Nervous System

Review Questions

1. Name the divisions of the nervous system. What are the major components of each division of the nervous system?

2. Define the following terms: neuron; neuroglia; axon; dendrite; cell body; astrocyte; oligodendrocyte; microglia; nerve; nucleus, ganglion; tract.

3. Name the parts of a neuron. What is the function of each part of a neuron.

4. Name the types of neuron. State the function of each type of neuron.

5. Name the types of neuroglia. State the function of each type of neuroglia.

6. What is a synapse? Name the components of a synapse. What is the function of each component of a synapse?

7. What is of a reflex arc? Name the components of a reflex arc.

8. Describe the external structure of the spinal cord. Describe the structure of the spinal cord as it appears in cross section.

9. Describe the structure of the surface of the brain.

10. Name the major parts of the brain. Name the components of each of the major parts of the brain. What is the function of each component?

11. Name the ventricles of the brain. What is the function of the ventricles of the brain?

12. Describe the meninges of the brain and spinal cord.

13. Describe the differences between cranial nerves and spinal nerves.

14. Name the 12 pairs of cranial nerves. What is the function of each pair of cranial nerves?

15. Name the four nerve plexuses in the body. Name the spinal nerves that form each nerve plexus.

16. Describe the peripheral branches of the spinal nerve plexuses to include the name of each of the principal nerves, the plexus from which it arises, the major branches of each nerve, and the area(s) innervated by each nerve.

17. What is the autonomic nervous system? What are the divisions of the autonomic nervous system? What is the function of each division of the autonomic nervous system? How do the two divisions of the autonomic nervous system differ in structure?

The Nervous System

Crossword Puzzle Clues

Across

6. Consists primarily of the thalamus and hypothalamus
8. Support, nurture, and protect nerve cells
10. Consists of nerves that arise from the brain and the spinal cord
12. Deals with the functions and disorders of the nervous system
13. Connective tissue covering around an individual neuron
15. Connective tissue coverings encircling the CNS
17. Part of brain that is continuous with the spinal cord (2 words)
20. Largest part of the brain
21. Motor nerve supply to the diaphragm
23. Principal relay station for sensory impulses to the cerebral cortex
24. Carries impulse toward the neuron cell body
26. A cluster of nerve cell bodies in the CNS
27. Fast, predictable, automatic response to environmental change
28. Located superior to the medulla and anterior to the cerebellum
29. Small, phagocytic cells in the CNS
31. CSF-filled cavities in the brain
32. Area inferior to the thalamus that is a major regulator of homeostasis
34. Superficial covering around a nerve
35. Help form blood-brain barrier
37. Smooths and coordinates complex skeletal muscle contractions
43. Fluid that surrounds, nourishes, and protects the CNS
47. Division of nervous system that controls the viscera
48. Insulates nerve fiber and increases speed of impulse conduction
49. Fold on the surface of the cerebrum

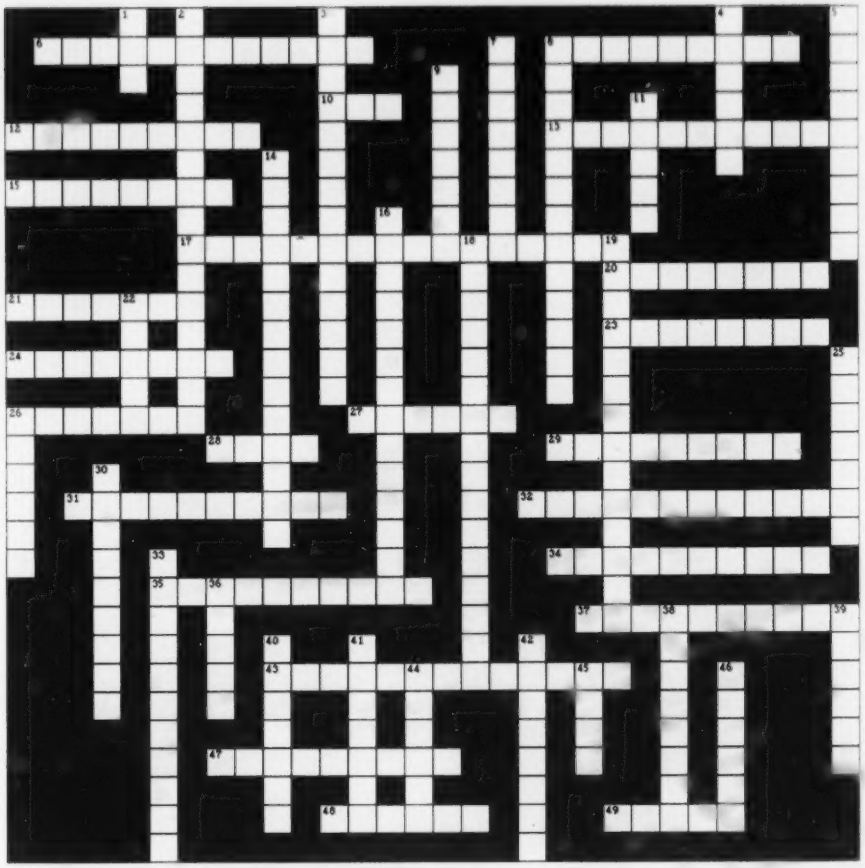
Down

1. Spinal cord and Brain
2. Produce myelin in the PNS
3. Connects the two cerebral hemispheres (2 words)
4. A neural network formed by the ventral rami of spinal nerves
5. Outermost, tough connective tissue covering around the CNS (2 words)
7. A cluster of nerve cell bodies in the PNS
8. Gap in myelin sheath
9. Motor nerve supply to the extensors of the leg
11. Neuron which carries impulse away from the CNS
14. Connective tissue that anchors the spinal cord to the coccyx (2 words)
16. Nerve which carries most of the parasympathetic outflow
18. Produce myelin in CNS
19. Neurotransmitter from postganglionic sympathetic neurons
22. A bundle of nerve fibers in the PNS
25. Functional connection between nerve cells

26. Basic functional unit of the nervous system
30. Simplest pathway for a response to a stimulus
33. Horse's tail (2 words)
36. A bundle of nerve fibers in the CNS
38. Structure that responds to a motor impulse
39. At in near or being the center; mid, center, medial, median, middle, central
40. Largest nerve in the body
41. Neuron which carries impulse toward the brain and spinal cord
42. Innermost, thin , transparent connective tissue covering around the CNS (2 words)
44. Damage of this nerve results in wrist drop
45. Carries impulse from the neuron cell body
46. Grooves on the surface of the cerebrum

The Nervous System

Crossword Puzzle



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The Nervous System

Word Search Puzzle

Z	A	A	C	E	C	N	W	Q	S	N	X	E	L	F	E	R	R	L	R	C	N
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ACETYLCHOLINE
ASTROCYTES
AUTONOMIC
AXON
CAUDAEQUINA
CEREBELLUM
CEREBROSPINAL
CEREBRUM
CNS
CORPUSCALLOSUM
DENDRITE
DIENCEPHALON
DURAMATER
EFFECTOR
ENDONEURIUM
EPINEURIUM
FEMORAL
GANGLION
GYRUS
HYPOTHAMALUS
MEDIAN
MEDULLAOBLON-GATA
MENINGES
MICROGLIA
MOTOR
MYELIN
NERVE
NEUROGLIA
NEUROLEMMO-CYTES
NEUROLOGY
NEURON
NUCLEUS
OLIGODENDRO-CYTES
PHRENIC
PIAMATER
PLEXUS
PNS
PONS
RADIAL
REFLEX
REFLEXARC
SCIATIC
SENSORY
SULCUS
SYNAPSE
THALAMUS
TRACT
VENTRICLES

The Eye and Ear

Review Questions

1. Name the bones that compose the orbit of the eye.

2. Name the layers of the eyeball. Name the components of each layerof the eyeball. What is the function of each component?

3. Name the refractory media of the eyeball.

4. Describe the anatomy of the retina.

5. Discuss the accessory structures of the eye to include the name, location, anatomical organization, and function of each structure.

6. Name the nerves that innervate the eyeball. What is the function of each nerve that innervates the eyeball?

7. Describe the structure of the ear to include the name and components of each part, and the function of each component.

8. Name the components of the external ear.

9. Name the components of the middle ear.

10. Name the components of the inner ear.

11. Describe the structure of the cochlea. What is the function of the cochlea?

12. Describe the structure of the vestibule and semicircular canals. What are the functions of the vestibule and the semicircular canals?

13. Name the nerve that innervates the ear. Describe the pattern of branching of the nerve that innervates the ear. What is the function of each branch of the nerve that innervates the ear?

The Eye and Ear

Crossword Puzzle Clues

Across

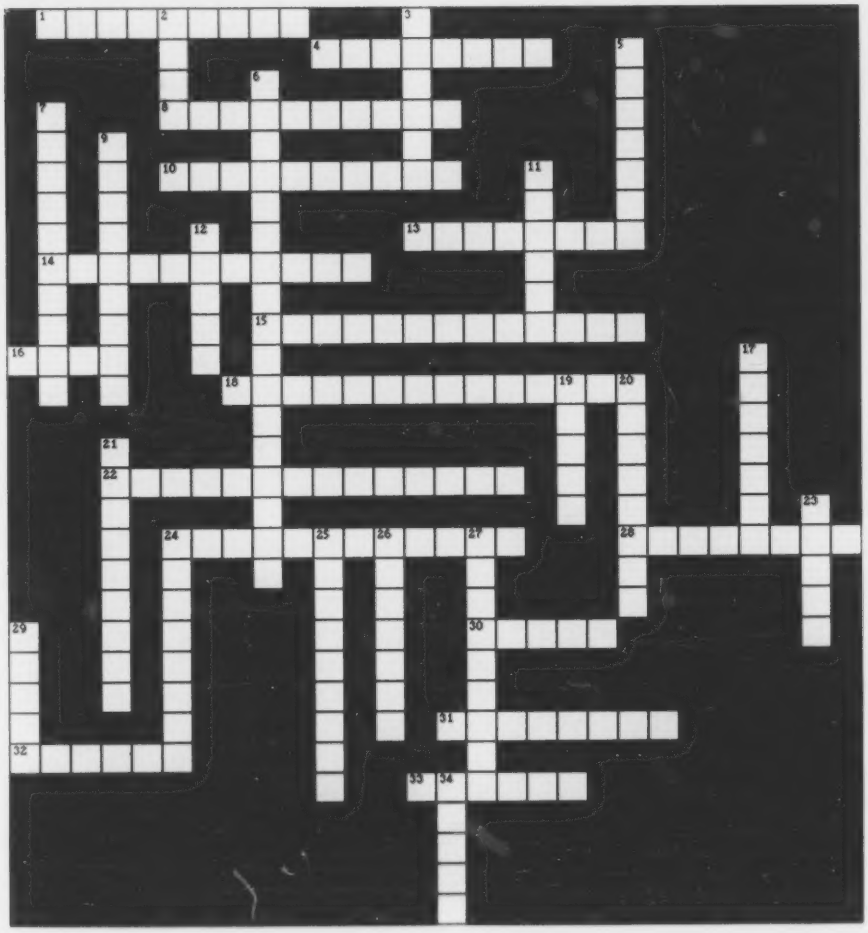
4. Specialized structure that responds to a specific stimulus
8. Eyebrows
10. Partition between the outer ear and middle ear (2 words)
14. Yellow spot (2 words)
15. Study of the structure and function of the eye
16. Receptors for shades of gray in dim light
18. Neurotransmitter from postganglionic sympathetic neurons
28. _____ membrane
30. Eyelashes
33. Nonvascular, transparent coat that covers the front of the eye

Down

2. Colored portion of the eyeball
3. Inner, nervous coat of the eyeball
5. Three tiny bones in the middle ear
7. Nerve which innervates the majority of the extra-ocular muscles
9. Blind spot (2 words)
20. Structure that responds to a motor impulse
23. Flared, trumpet-shaped, flap of cartilage of the outer ear
24. Tube that connects the middle ear to the pharynx
25. Nerve responsible for smell
26. Earwax
29. Receptors for color vision
34. Nerve which carries impulses for vision

The Eye and Ear

Crossword Puzzle



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The Eye and Ear

Word Search Puzzle

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ABDUCENS
ACETYLCHOLINE
CERUMEN
CILIA
COCHLEA
CONES
CORNEA
EFFECTOR
EUSTACHIAN
FACIAL
INCUS
IRIS
MACULALUTEA
MALLEUS
MEMBRANE
NOREPINEPHRINE
OCULOMOTOR
OLFACTORY
OPHTHALMOLOGY
OPTIC
OPTICDISC
ORGANOFCORTI
OSSICLES
PALPEBRAE
PINNA
RECEPTOR
RETINA
RODS
STAPES
SUPERCILIA
TROCHLEAR
TYMPANIC
VAGUS
VESTIBULE
V E S T I B U L O -
COCHLEAR

The Circulatory System and Blood

Review Questions

1. Name the two main components of blood.

2. Name the main components of plasma.

3. Name the main types of formed elements in blood. What is the function of each type of formed element in blood?

4. Describe the location of the heart. Name the organs that are located near the heart and state where each organ is located in relation to the heart.

5. Name the layers of the heart wall. Name the type of tissue that makes up each layer of the heart wall.

6. Describe the structure and anatomical relationships of the chambers and valves of the heart.

7. Describe the pattern of blood flow through the heart.

8. Describe the internal conduction system of the heart. What is the pacemaker of the heart?

9. Name the blood vessels that carry blood to the heart wall. What area of the heart does each blood vessel supply?

10. Name the blood vessels that carry blood from the heart wall. What area of the heart does each blood vessel supply?

11. Define the following terms: artery; vein; capillary; lymph.

12. Name the major arteries of the body. Where does each of the major arteries begin? What area of the body does each of the major arteries supply?

13. Name the major veins of the body. Where does each of the major veins terminate? What area of the body does each of the major veins drain?

14. Name the major lymphatic organs of the body. State the location of each major organ. What is the function of each lymphatic organ?

15. What is the mononuclear phagocyte system?

The Circulatory System and Blood

Crossword Puzzle Clues

Across

1. White blood cell with conspicuous granules in the cytoplasm
5. Arteries that supply the heart wall
6. A compartment of the heart that pumps blood
8. Outermost layer of the heart wall
10. Artery located in the fossa posterior to the knee
14. Lymphatic structure that filters lymph
18. Mediates the immune response
19. Specialized lymphatic capillary in the small intestine
21. White blood cell
22. A compartment of the heart
23. Returns blood from the heart wall to right atrium
25. Strawberry-colored liquid portion of blood
27. Right AV valve
28. Percent of red blood cells in the blood
33. Cell fragment which promotes clot formation
34. Unpaired, visceral branches of the abdominal aorta include the superior and inferior _____ arteries.
35. Carries blood toward the heart
37. Process by which formed elements of blood develop
38. Bicuspid valve
39. Arteries which supply the testes and ovaries
41. Bi-concave disc
42. A compartment of the heart that receives blood
44. Fluid of the lymphatic system
45. Most numerous white blood cell
46. Largest vein in the body (3 words)
47. Main collecting duct of the lymphatic system
48. Small vein
49. Contraction phase of the heart muscle

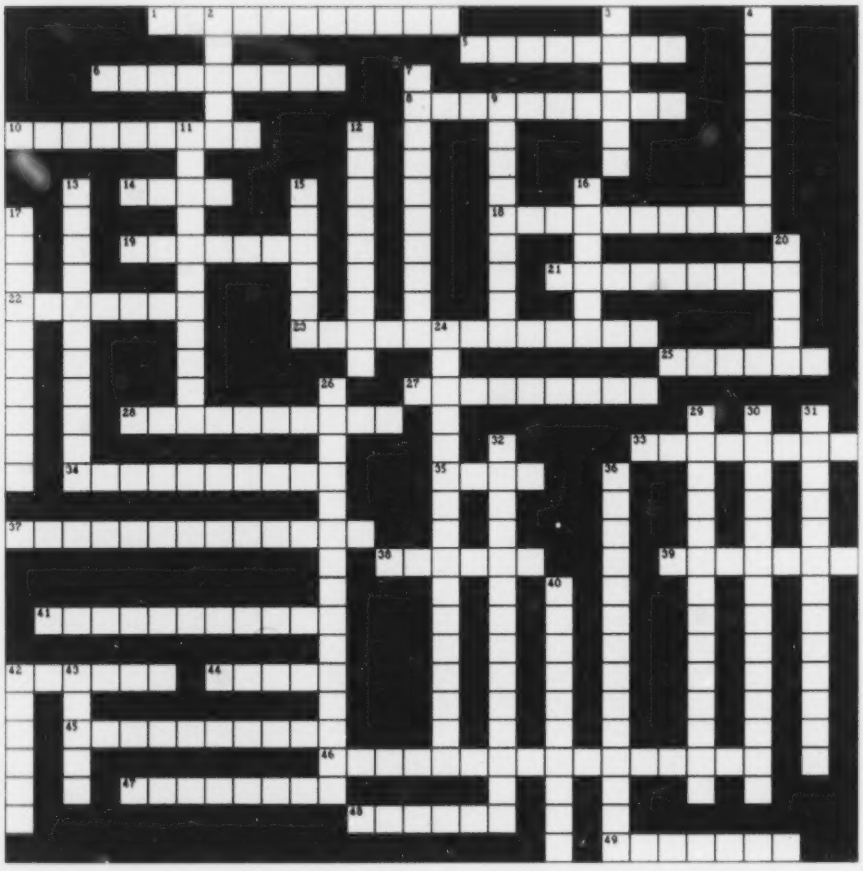
Down

2. Largest artery in the body
3. Lateral artery of the forearm often used to take the pulse
4. Relaxation phase of the heart muscle
7. Iron containing protein that carries oxygen
9. Site of exchange between the blood and the tissues
11. Inner lining of the heart
12. Muscles which assist in keeping the AV valves closed
13. A median partition in the thoracic cavity
15. First branch off the abdominal artery; supplies the liver, stomach and spleen
16. Largest single mass of lymphatic tissue in the body
17. Thickest layer of the heart wall

20. Lacks clotting proteins
24. Type of valve between a receiving and pumping compartment
26. First artery that branches off the aortic arch
29. Heart, blood, and blood vessels
30. A sac that surrounds the heart
31. Cell which gives rise to the thrombocyte
32. Pacemaker of the heart (2 words)
36. Longest vein in the body (2 words)
40. Artery which supplies the upper limb
42. Carries blood away from the heart
43. Arteries which supply the kidneys

The Circulatory System and Blood

Crossword Puzzle



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The Circulatory System and Blood

Word Search Puzzle

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S	I	V	P	C	M	N	I	Y	L	U	V	J	T	J	S	L	Y	M	P	H	H	P	A	Z

AORTA
ARTERY
ATRIOVENTRICULAR
ATRIUM
BRACHIOCEPHALIC
CAPILLARY
CARDIOVASCULAR
CELIAC
CHAMBER
CORONARY
CORONARYSINUS
DIASTOLE
ENDOCARDIUM
EPICARDIUM
ERYTHROCYTE
GONADAL
GRANULOCYTE
GREATSAPHENOUS
HEMATOCRIT
HEMATOPOIESIS
HEMOGLOBIN
INFERIORVENACAVA
LACTEAL
LEUCOCYTE
LYMPH
LYMPHOCYTE
MEDIASTINUM
MEGAKARYOCYTE
MESENTERIC
MITRAL
MYOCARDIUM
NEUTROPHIL
NODE
PAPILLARY
PERICARDIALSAC
PLASMA
PLATELET
POPLITEAL
RADIAL
RENAL
SERUM
SINOATRIALNODE
SPLEEN
SUBCLAVIAN
SYSTOLE
THORACIC
TRICUSPID
VEIN
VENTRICLE
VENULE

The Respiratory System

Review Questions

1. Name the structures that make up the upper respiratory tract. State the function of each structure in the upper respiratory tract.

2. Name the structures that make up the lower respiratory tract. State the function of each structure in the lower respiratory tract.

3. What is the mediastinum? Name the structures located in the mediastinum.

4. Name the cartilages that compose the larynx.

5. Describe the pattern of branching of the trachea and bronchi.

6. Describe the lung lobule.

7. Name the blood vessels that form the two blood pathways between the heart and the lungs. How do the two blood supply pathways differ in function?

The Respiratory System

Crossword Puzzle Clues

Across

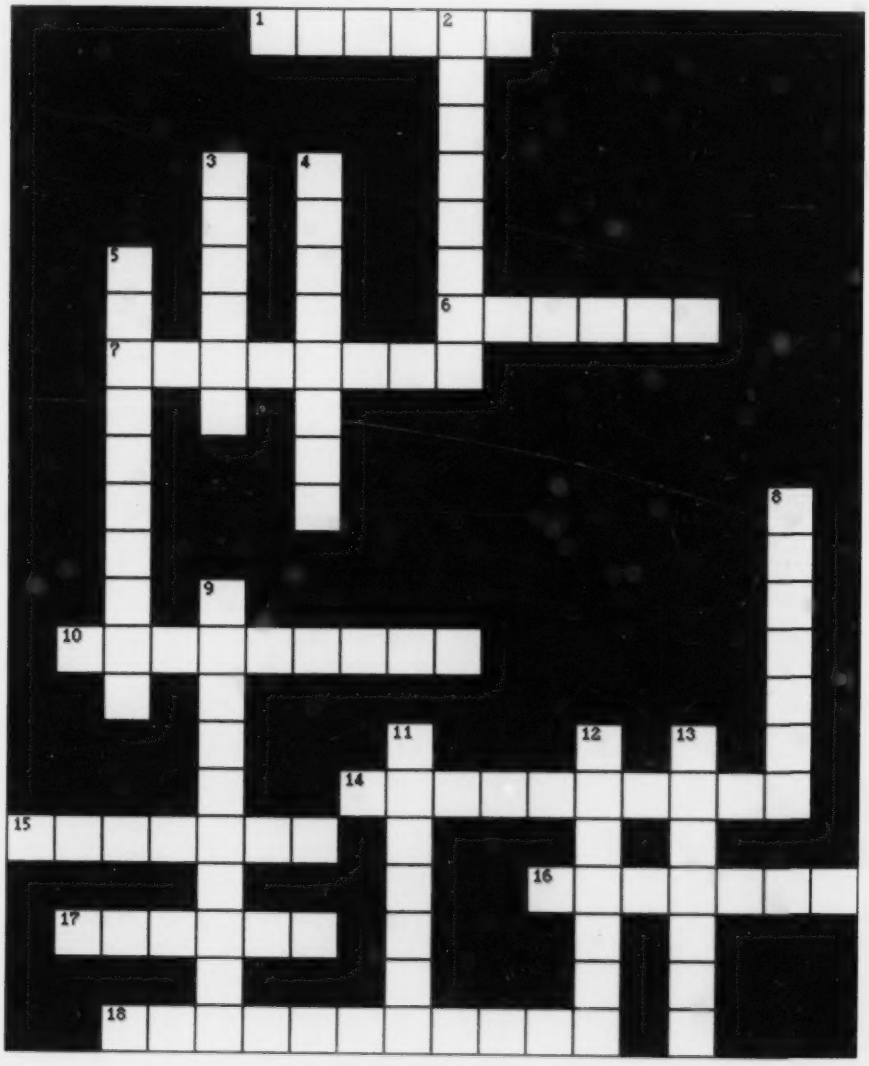
1. Voice box
6. Primary lung unit
7. Pharyngeal tonsils
10. The primary muscle of breathing
14. Small airway which lacks cartilage
15. Largest cartilage of the voice box
16. Ring shaped cartilage of the voice box
17. Partition that separates the nasal cavity into right and left sides
18. Contains the pharyngeal tonsils and the opening of the auditory tube

Down

2. External nares
3. Opening from the mouth to the pharynx
4. Air sac in the lung
5. Smooth muscle along the posterior portion of the windpipe
8. Internal nares
9. Leaf-shaped cartilage of the voice box
11. 5" long airway composed of C-shaped cartilages
12. Throat
13. Bony shelves named superior, middle, and inferior _____

The Respiratory System

Crossword Puzzle



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The Respiratory System

Word Search

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B	Y	B	R	J	Y	L	Q	F	Y	Y	M	G	A	R	H	P	A	I	D

ADENOIDS
ALVEOLUS
BRONCHIOLE
CHOANAE
CONCHAE
CRICOID
DIAPHRAGM
EPIGLOTTIS
FAUCES
LARYNX
LOBULE
NASOPHARYNX
NOSTRILS
PHARYNX
SEPTUM
THYROID
TRACHEA
TRACHEALIS

The Urinary System

Review Questions

1. Name the organs that make up the urinary system. What is the location of each of the organs in the urinary system? What if the function of each of the organs in the urinary system?

2. Describe the external structure of the kidney. Name the layers of connective tissue that surround (invest) the kidney.

3. Describe the internal anatomy of the kidney.

4. What is a nephron? Names the parts of a nephron. Name the structures that drain urine from the nephron to the ureter.

5. Describe the pattern of blood flow through the kidney.

6. Describe the structure of the urinary bladder.

The Urinary System

Crossword Puzzle Clues

Across

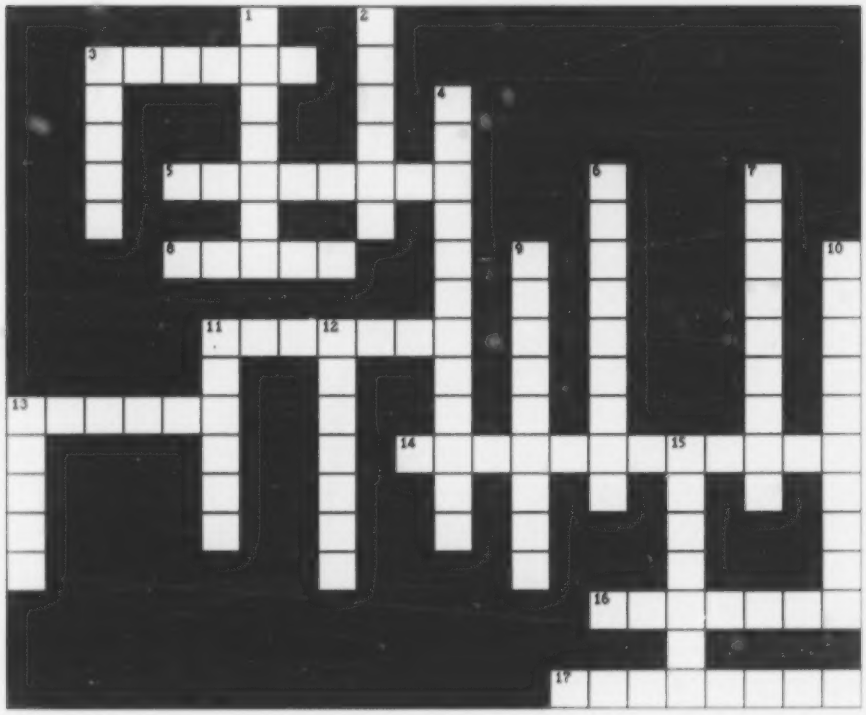
3. Superficial reddish area of the kidney
5. Cone shaped structures in the medulla
8. Cavity within the kidney
11. A small tube which drains urine from the urinary bladder
13. Loop of _____
14. Arteries which give rise to the afferent arterioles
16. Paired, bean-shaped organs, retroperitoneal in position
17. Muscular layer of the urinary bladder

Down

1. Functional unit of the kidney
2. Large, funnel-shaped cavity which drains urine from the kidney
3. Cup-like structure which receives urine from the pyramid
4. Specialized cells in the renal tubule (two words)
6. Composed of the glomerulus and the glomerular capsule: Renal _____
7. Type of blood vessel which supplies and drains the glomerulus
9. Long, loop-shaped capillaries that drain the medulla
10. A ball-shaped network of capillaries where blood is filtered
11. 12" muscular tube that connects the pelvis to the bladder
12. A small triangular area in the floor of the urinary bladder
13. Deep fissure through which blood vessels enter and leave the kidney
15. A hollow, muscular organ which stroes urine

The Urinary System

Crossword Puzzle



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The Urinary System

Word Search Puzzle

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V	I	Q	G	D	E	I	S	P	R	A	A	P	C	P	R	Z	E	P	H
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ARTERIOLE
BLADDER
CALYX
CORPUSCLE
CORTEX
DETRUSOR
GLOMERULUS
HENLE
HILUS
INTERLOBULAR
KIDNEYS
MACULADENSA
NEPHRON
PELVIS
PYRAMIDS
SINUS
TRIGONE
URETER
URETHRA
VASARECTA

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The Reproductive System

Review Questions

1. Name the structures that make up the male reproductive system. What is the location of each structure in the male reproductive system? What is the function of each organ in the male reproductive system?

2. Name the structures that make up the female reproductive system. What is the location of each structure in the female reproductive system? What is the function of each organ in the female reproductive system?

The Reproductive System

Crossword Puzzle Clues

Across

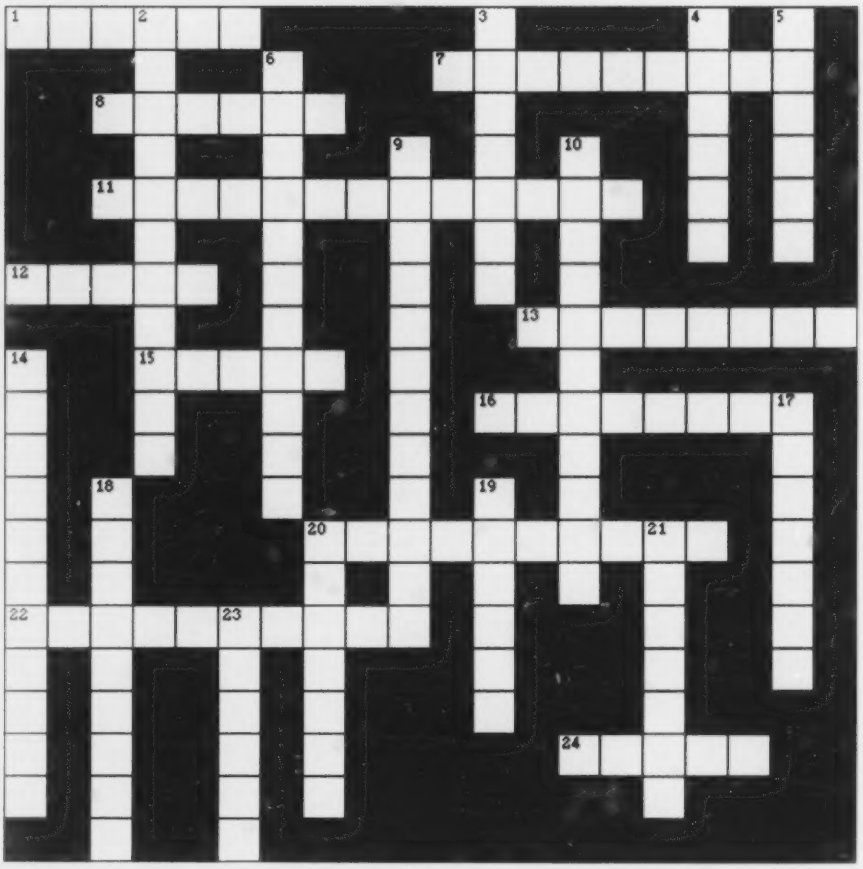
1 Sex cell
7 Skeletal muscle that elevates the testes
8 Female copulatory organ and birth canal
11 Cowper's or _____ gland
12 Primary sex organ
13 Finger-like projections from the lateral edge of the oviduct
15 Produces ova, estrogens, and progesterone
16 Female structure that is homologous to the penis
20 Muscular layer of the uterus
22 Coiled tube along posterior border of the testis where sperm mature
24 Male copulatory organ

Down

2 Duct formed by the union of the ducts from the seminal vesicle and vas deferens
3 Terminal duct of the male urinary and reproductive systems
4 Site for implantation and development of the fertilized ovum
5 Circular pigmented area of skin surrounding the nipple
6 Inner layer of the uterus
9 Tubules where spermatogenesis occurs
10 A plexus of veins that drains the testes
14 18" duct within the spermatic cord
17 Sac of skin that encloses the testes
18 A layer derived from the peritoneum, Tunica _____
19 Produces sperm and testosterone
20 Modified sudoriferous glands that produce milk
21 Oviduct, also called Fallopian tube or _____ tube
23 Smooth muscle of the scrotum

The Reproductive System

Crossword Puzzle



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The Reproductive System

Word Search Puzzle

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E	N	D	O	M	E	T	R	I	U	M	U	R	G	X	Q	U	W	C	A

AREOLA
BULBOURETHRAL
CLITORIS
CREMASTER
DARTOS
EJACULATORY
ENDOMETRIUM
EPIDIDYMIS
FIMBRIAE
GAMETE
GONAD
MAMMARY
MYOMETRIUM
OVARY
PAMPINIFORM
PENIS
SCROTUM
SEMINIFEROUS
TESTIS
URETHRA
UTERINE
UTERUS
VAGINA
VAGINALIS
VASDEFERENS

The Digestive System

Review Questions

1. Name the organs of the gastrointestinal tract. Describe the anatomy of each organ of the gastrointestinal tract.

2. Name the accessory organs of the gastrointestinal tract. What is the location of each of the accessory organs of the gastrointestinal tract. What is the function of each accessory organ?

3. Describe a liver lobule. What is the function of each part of the liver lobule.

4. Discuss the anatomy of the abdomen to include its boundaries and apertures, and the peritoneal membranes and their various modifications.

The Digestive System

Crossword Puzzle Clues

Across

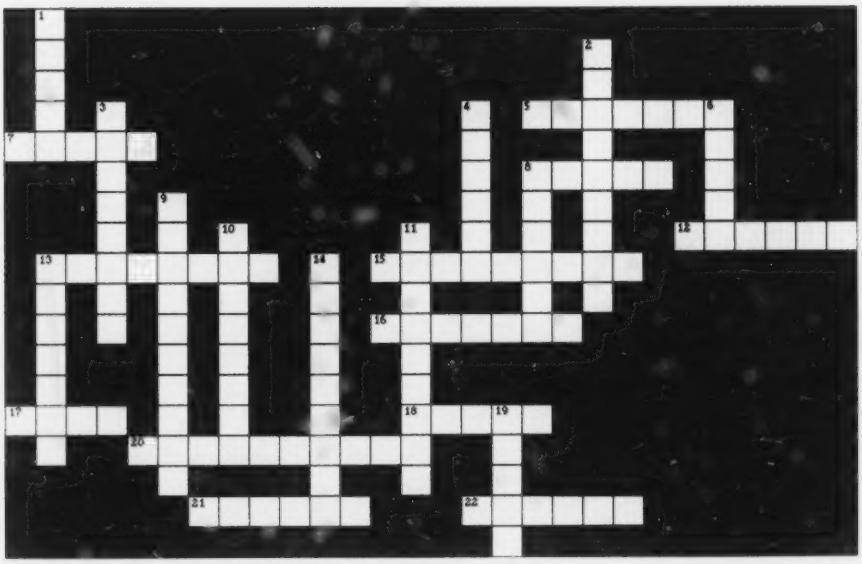
5 Sphincter that controls emptying of the stomach
7 Segment of the large intestine below the junction with the ileum
8 Cells which produce pepsinogen
12 The superficial layer of the alimentary canal
13 An elongated gland located in the "C" of the duodenum
15 Double-layered membrane that attaches abdominal organs to the body wall
16 A J-shaped enlargement of the alimentary canal below the diaphragm
17 Product of the liver which aids in fat digestion
18 Projection from the free end of the soft palate
20 Salivary gland located in the anterior floor of the mouth
21 Inner lining of the alimentary canal
22 The last portion of the large intestine

Down

1 Prominent folds in the lining of the stomach
2 Ligament that divides the liver into right and left lobes
3 Region where bile and pancreatic secretions enter the intestine
4 Basic functional unit of the liver
6 Semi-liquid mixture produced by gastric digestion
8 Duct which transports bile to and from the gallbladder
9 The serous membrane of the abdominal cavity
10 Cells which produce hydrochloric acid
11 Space between the cheeks and lips, and gums and teeth
13 Salivary gland located anterior and inferior to the ear
14 A hollow, muscular tube between the pharynx and stomach
19 Largest organ in the body

The Digestive System

Crossword Puzzle



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The Digestive System

Word Search Puzzle

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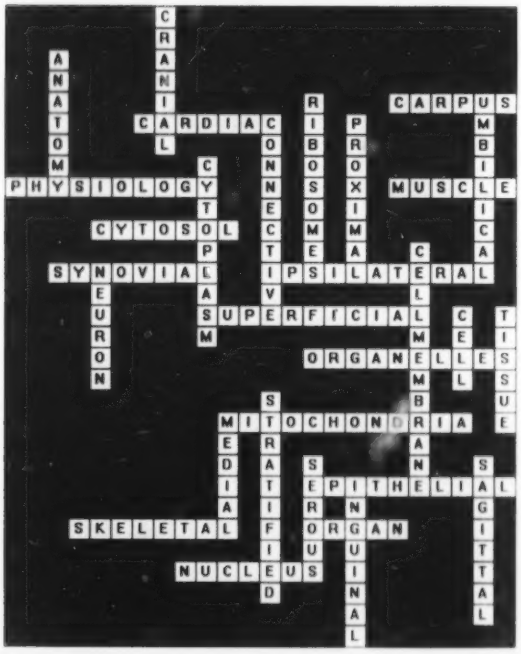
BILE
CECUM
CHIEF
CHYME
CYSTIC
DUODENUM
ESOPHAGUS
FALCIFORM
LIVER
LOBULE
MESENTERY
MUCOSA
PANCREAS
PARIETAL
PAROTID
PERITONEUM
PYLORIC
RECTUM
RUGAE
SEROSA
STOMACH
SUBLINGUAL
UVULA
VESTIBULE

Puzzle Solutions

Anatomical Terminology



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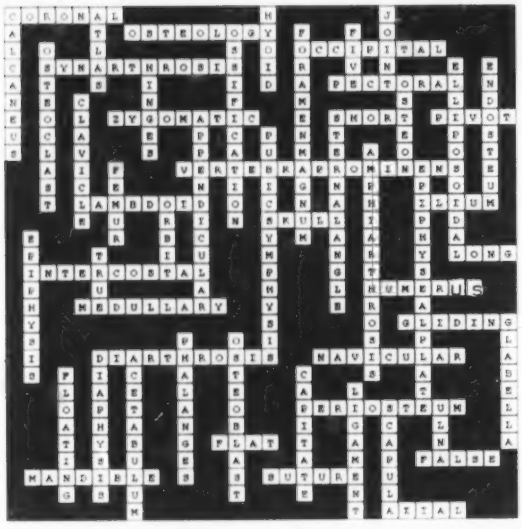
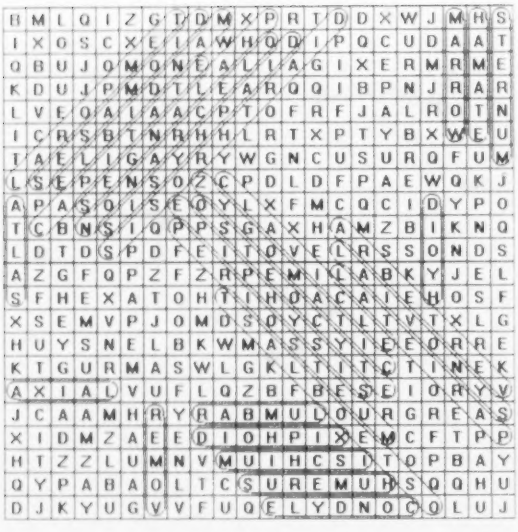
The Skeletal System





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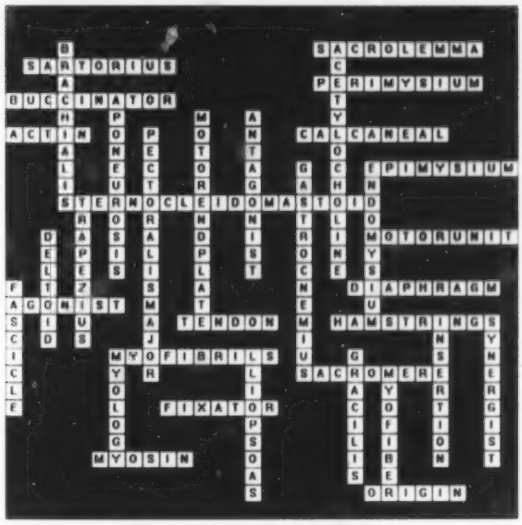
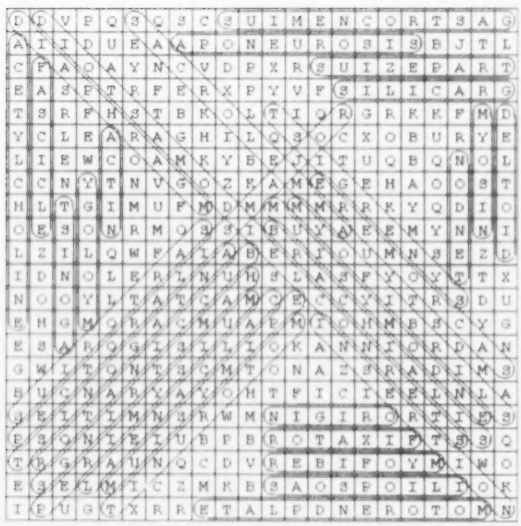
The Muscular System





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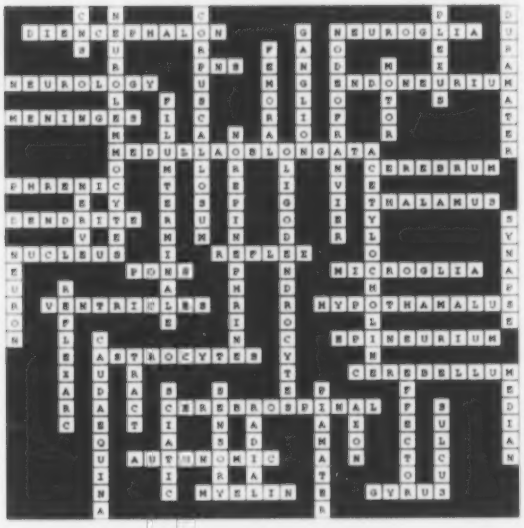
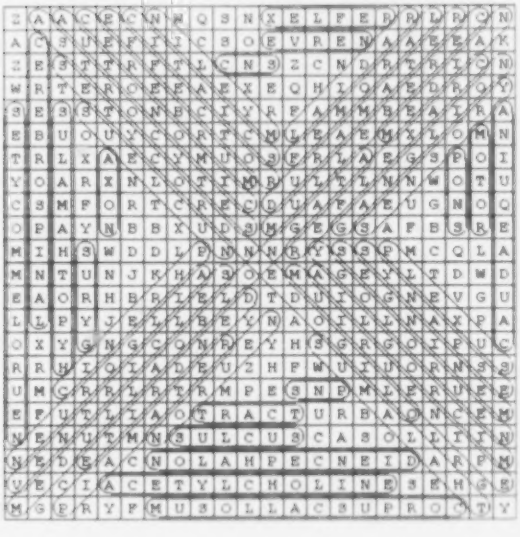
The Nervous System





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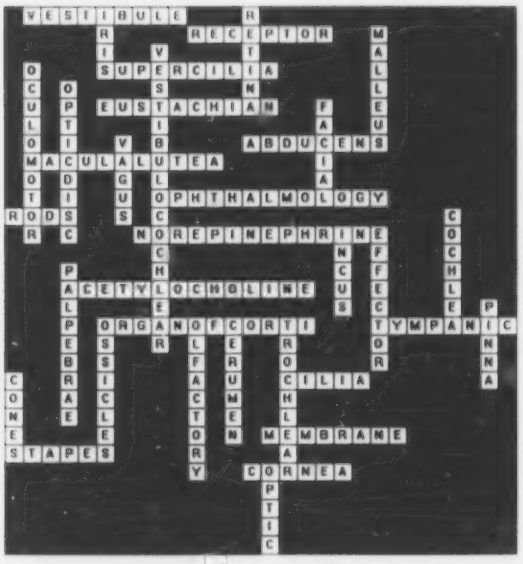
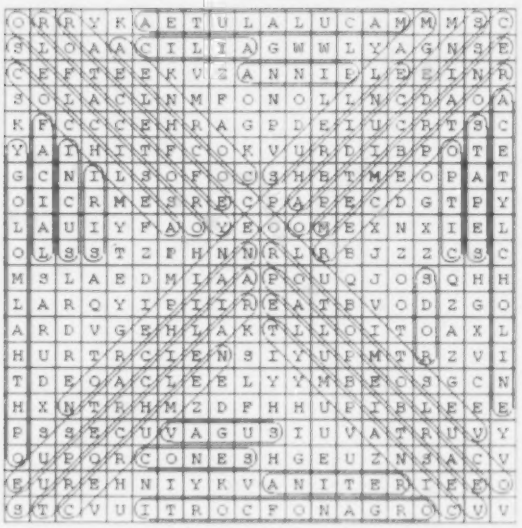
The Eye and Ear





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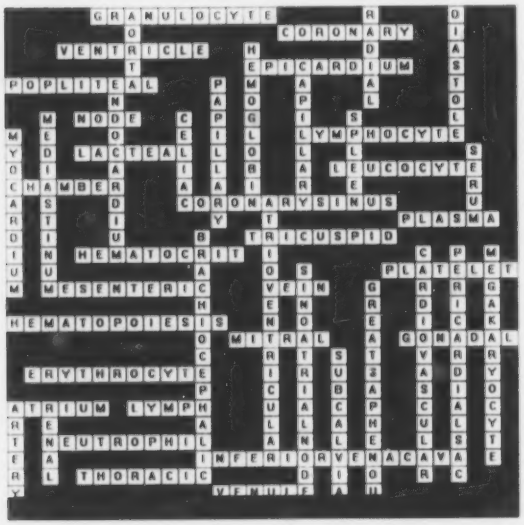
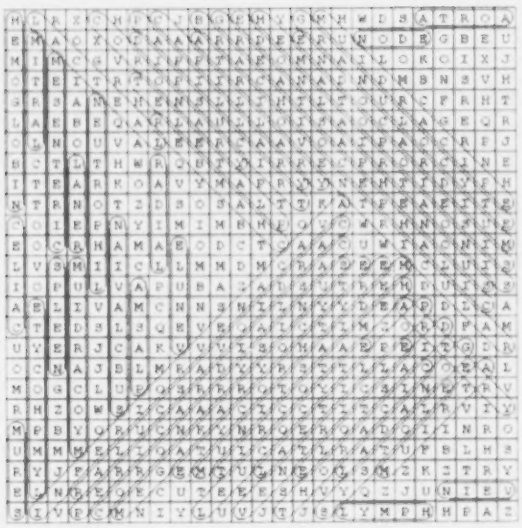
The Circulatory System and Blood





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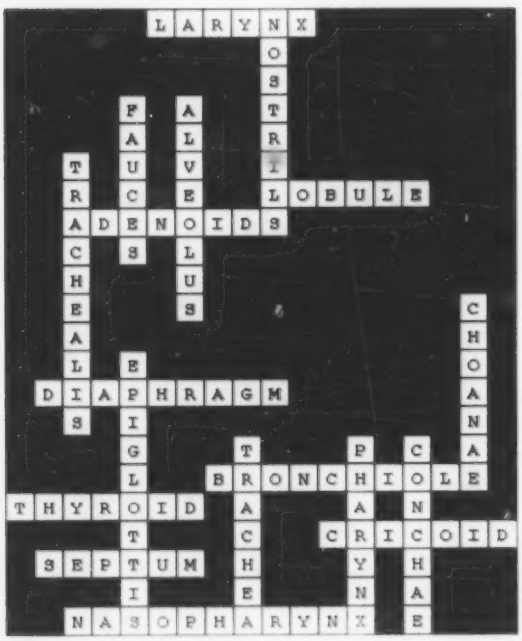
The Respiratory System



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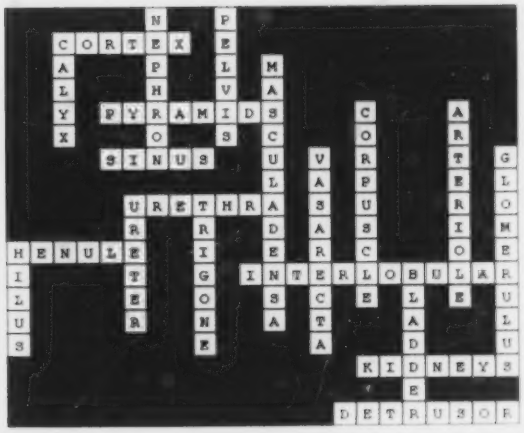
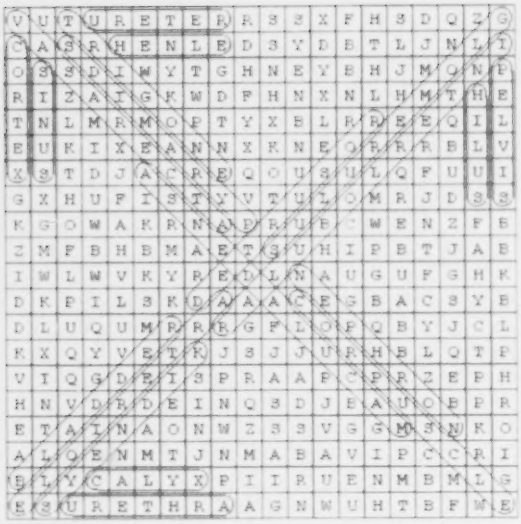
The Urinary System





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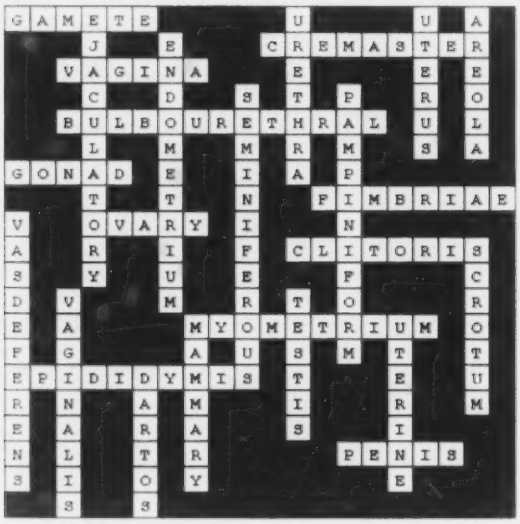
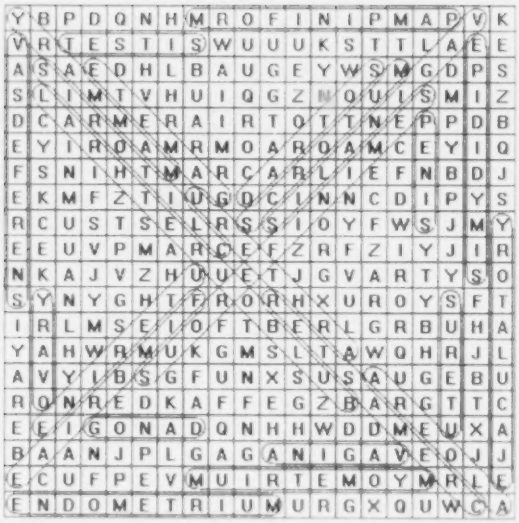
The Reproductive System





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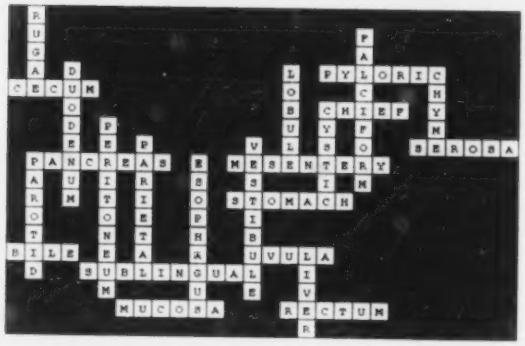
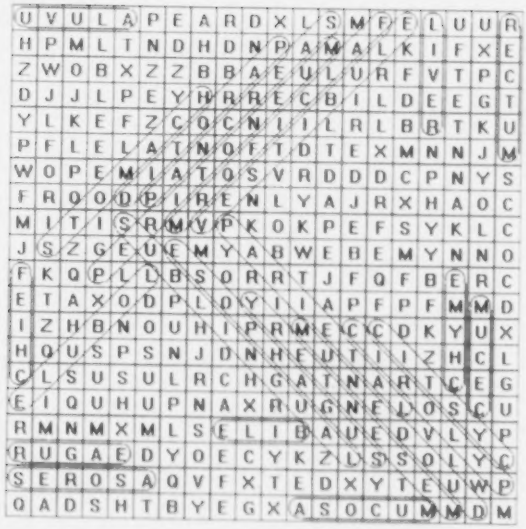
The Digestive System





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